

### **DETAILED ACTION**

1. Claims 1-5, 16-18, 21, and 22 are allowed. These claims have been renumbered as claims 1-20.
2. Claims 6-15, 19, 20, and 23-30 have been cancelled in the amendment received on September 9, 2008.

### ***Drawings***

3. The drawings filed on March 17, 2004 are accepted by the Examiner.

### **EXAMINER'S AMENDMENT**

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
5. The Specification has been amended as follows:  
at "Cross Reference to Related Applications," .abandoned, has been included after "10/802,710"; and  
.abandoned, has been included after "10/802,614."

### **REASONS FOR ALLOWANCE**

6. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not render obvious to one ordinarily skilled in the art at the time of applicant's invention nor anticipate the combination of claimed elements including "identifying a plurality of disjoint sets of trees in the collection of tree data structures, each tree in the respective set of trees having a same structure and including at least one leaf node having a value; for each of the plurality of disjoint sets of trees, forming a pattern having the same structure as each tree in the set of trees thereby generating a set of patterns; storing the set of patterns in a computer-readable memory in lieu of storing the plurality of sets of trees corresponding to each pattern; storing the at least one leaf node of each tree of each of the sets of trees in a computer-readable memory; associating each pattern in the set of patterns with the at least one leaf node of each tree in the set of trees corresponding to the pattern" as recited in independent claim 1 and similarly recited in independent claim 6.

The remaining claims, 2-5, 17, 18, 21 and 22, are dependent claims, thus these claims are patently distinct over the art of record for at least the above reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***NAME OF CONTACT***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheryl Lewis whose telephone number is (571) 272-4113. The examiner can normally be reached on 6:30-3:00. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

(571) 273-4113 (Use this FAX #, only after approval by Examiner, for "INFORMAL" or "DRAFT" communication. Examiners may request that a formal paper/amendment be faxed directly to them on occasions.).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/ Technology Center (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cheryl Lewis/  
Primary Examiner, Art Unit 2167  
September 29, 2008